
**Industrial tyres and rims — Rubber
solid tyres (metric series) for
pneumatic tyre rims —**

**Part 1:
Designation, dimensions and marking**

*Pneumatiques et jantes industriels pour matériel de manutention —
Bandages pleins en caoutchouc (série millimétrique) pour jantes de
pneumatiques —*

Partie 1: Désignation, cotes et marquage

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 31, *Tyres, rims and valves*, Subcommittee SC 7, *Industrial tyres and rims*.

This second edition cancels and replaces the first edition (ISO 10499-1:1991) which has been technically revised. It also incorporates the Technical Corrigendum ISO 10499-1:1991/Cor. 1:1997. The main changes compared to the previous edition are as follows:

- addition of a new subclause on overall diameter in [Clause 6](#).

A list of all parts in the ISO 10499 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Industrial tyres and rims — Rubber solid tyres (metric series) for pneumatic tyre rims —

Part 1: Designation, dimensions and marking

1 Scope

This document specifies the main requirements, including designations, dimensions and markings, of the metric series of rubber solid tyres for pneumatic tyre rims primarily intended for industrial machines for use on prepared surfaces.

Rim contours fitting these tyres are specified in ISO 3739-1 and ISO 3739-3.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 3739-1, *Industrial tyres and rims — Part 1: Pneumatic tyres (metric series) on 5 degrees tapered or flat base rims — Designation, dimensions and marking*

ISO 3877-4, *Tyres, valves and tubes — List of equivalent terms — Part 4: Solid tyres*

ISO 4223-2, *Definitions of some terms used in the tyre industry — Part 2: Solid tyres*

ISO 10499-1:2019

<https://standards.iteh.ai/catalog/standards/iso/eba1918e-13a4-49f2-848e-d92971df3681/iso-10499-1-2019>

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4223-2 and ISO 3877-4 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

4 Tyre designations

4.1 General

The dimensional and constructional characteristics shall be indicated as shown in [Figure 1](#):



Figure 1 — — Indication of dimensional and constructional characteristics

4.2 Nominal section width

The nominal section width of the tyre shall be indicated in millimetres, ending either in 0 or 5.

4.3 Nominal aspect ratio

The nominal aspect ratio shall be expressed as a percentage and shall be a multiple of 5.

4.4 Nominal rim diameter code

For tyres mounted on existing rims, the code shall be as given in [Table 1](#).

Table 1 — Nominal rim diameter code

Nominal rim diameter code	Nominal rim diameter D_r mm
4	102
6	152
8	203
9	229
10	254
12	305
15	381
20	508

4.5 Nominal rim width code

For tyres mounted on existing rims, the code shall be as given in [Table 2](#).

Table 2 — Nominal rim width code

Nominal rim width code
2.5
3.0
3.25
4.0
4.33
5.0
5.5
6.0
6.5
7.0
8.0
9.75
10.0
11.0
16.0